Title (en)

SPATIAL LIGHT MODULATOR AND METHOD FOR DISPLAYING COMPUTER-GENERATED HOLOGRAM USING SAME

Title (de)

RÄUMLICHER LICHTMODULATOR UND VERFAHREN ZUR ANZEIGE EINES COMPUTERGENERIERTEN HOLOGRAMMS DAMIT

Title (fr)

MODULATEUR SPATIAL DE LUMIÈRE ET PROCÉDÉ D'AFFICHAGE D'HOLOGRAMME GÉNÉRÉ PAR ORDINATEUR À L'AIDE DE CE DERNIER

Publication

**EP 3327513 A4 20190123 (EN)**

Application

**EP 16787707 A 20160114**

Priority

- CN 201510413120 A 20150714
- CN 2016070872 W 20160114

Abstract (en)

[origin: US2017146953A1] A spatial light modulator and a method for displaying a computer generated hologram are disclosed. The spatial light modulator includes a plurality of MEMS units arranged in an array, each of the MEMS units corresponds to a pixel of a computer generated hologram and includes a sensing device, a light shielding portion and a driving device. The sensing device is configured for receiving position information that is obtained through Roman encoding a pixel corresponding to an MEMS unit including the sensing device and the position information is transmitted to the driving device by the sensing device. The driving device is configured for controlling the light shielding portion to move to a position corresponding to the position information in response to the received position information of the light shielding portion when the present frame is displayed.

IPC 8 full level

**G03H 1/22** (2006.01); **G02B 26/08** (2006.01); **G03H 1/02** (2006.01); **G03H 1/08** (2006.01)

CPC (source: EP US)

**G02B 26/023** (2013.01 - EP US); **G03H 1/02** (2013.01 - EP US); **G03H 1/0841** (2013.01 - EP US); **G03H 1/2294** (2013.01 - EP US); G03H 2001/0224 (2013.01 - EP US); G03H 2001/0858 (2013.01 - EP US); G03H 2001/2297 (2013.01 - US); G03H 2223/19 (2013.01 - US); G03H 2223/50 (2013.01 - US); G03H 2225/24 (2013.01 - EP US); G03H 2225/32 (2013.01 - EP US); G03H 2225/33 (2013.01 - EP US); G03H 2227/03 (2013.01 - US)

Citation (search report)

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CN110703577A

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**US 10126710 B2 20181113**; **US 2017146953 A1 20170525**; CN 104950654 A 20150930; CN 104950654 B 20170811; EP 3327513 A1 20180530; EP 3327513 A4 20190123; EP 3327513 B1 20210428; WO 2017008483 A1 20170119

DOCDB simple family (application)

**US 201615113949 A 20160114**; CN 201510413120 A 20150714; CN 2016070872 W 20160114; EP 16787707 A 20160114